

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Asgrow Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Abador'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this eighth day of April in the year of our Lord one thousand nine hundred and seventy-five

Attest.

*K. J. Rollin*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Earl L. Buttz*

Secretary of Agriculture



## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <i>Abador</i> <i>Regent</i> (XP F3008)	2. KIND NAME  Pea	FOR OFFICIAL USE ONLY PV NUMBER 7400085	
3. GENUS AND SPECIES NAME  Pisum sativum	4. FAMILY NAME (Botanical)  Leguminosae	FILING DATE 4.3.74	TIME 8 A.M.
	5. DATE OF DETERMINATION  1971	FEE RECEIVED \$ 250	BALANCE DUE \$ —
		\$ 250	\$ —
		\$ 250	\$ —
6. NAME OF APPLICANT(S)  Asgrow Seed Company	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)  Kalamazoo, Michigan 49001		8. TELEPHONE AREA CODE AND NUMBER  (616) 382-4000 EXT 5200
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)  Corporation	10. STATE OF INCORPORATION  Delaware		11. DATE OF INCORPORATION  22 March, 1968

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Allen R. Trotter  
Asgrow Seed Company  
Kalamazoo, Michigan 49001

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)☒ 13B. Exhibit B, Botanical Description of the Variety☒ 13C. Exhibit C, Objective Description of the Variety☐ 13D. Exhibit D, Data Indicative of Novelty☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

April 8, 1974  
(DATE)

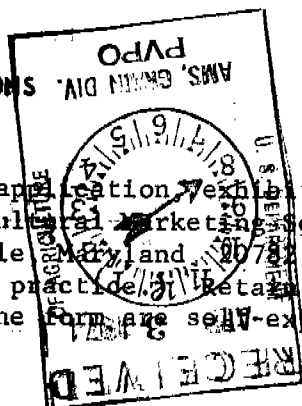
Allen Trotter  
(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

## INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland, 20781. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF <sup>ABADOR</sup> REGENT (XP-F3008)  
Application #7400085

AMENDED

- 1963 Original cross was made Coronet X M61180.  
1964 F<sub>1</sub> was grown.  
1965 F<sub>2</sub> was grown and selections were made.  
1966 F<sub>3</sub> was grown and single plant selections were made.  
1967 F<sub>4</sub> was grown and single plant selections were made.  
1968 F<sub>5</sub> was grown and single plant selections were made.  
1969 F<sub>6</sub> was grown and single plant selections were made.  
1970 F<sub>7</sub> was grown and single plant selections were made.

PRELIMINARY YIELD TRIALS

- 1971 F<sub>8</sub> was grown and single plant selections were made.

Yield trials

Designated XP-F3008.

Increased during the winter.

- 1972 Trials, increase, and mass selection.  
1973 Trials, increase, and mass selection.

Named Regent = Abador  
H-Z

This variety appears to be completely stable but it does produce a small percentage of steriles and bloaters. These off types appear in all varieties and are undoubtedly due to environmental conditions.

## EXHIBIT B

BOTANICAL DESCRIPTION OF <sup>ABADOR</sup> ~~REGENT~~ (XP-F3008)

ABADOR

~~Regent~~ is a very small sieve freezer pea which develops a plant type quite similar to Mini but distinct from all other known varieties. The plant type has been described as "Vetchy". The stem is slender and the leaflets and stipules are small. The mature plants are approximately 55 cm tall and there is some branching. ~~Regent~~ normally flowers on about the 13th node and is approximately 3 days later than Alderman.

The leaflets are medium green in color with a light wax. There are normally three or more leaflet pairs. Clasping stipules are present and are the same color but larger than the leaflets. The stipules and leaflets are marbled. The flowers are white.

The pods are quite small being 5 cm in length and 10 mm in width. They are generally borne double and average approximately 8 seeds per pod. The pods are slightly curved with a blunt end. The very slender, slightly curved small pod is distinct from practically all other varieties.

The seed of Regent at 95-100 tenderometer are very small with an average sieve size of approximately 2.0. Berries are a normal dark green freezer color with a dull surface.

The dry seeds are very small, wrinkled and dark green in color. Cotyledon color is green.

Regent has been tested for resistance to Fusarium Wilt and it is susceptible. The variety has not been tested for resistance to other diseases.

Regent is quite similar to Mini in plant habit, leafiness, pod shape and seed shape but is distinctly different in that Regent is a freezer and Mini a canner. Several years trials indicate that the average sieve size of Mini is about .3 smaller than Regent. Regent is quite similar to Puget in leaf color, pod color, fresh seed color and mature seed color but differs very radically from Puget in plant type, leafiness, sieve size, seed size and many other characters.

OBJECTIVE DESCRIPTION OF VARIETY  
PEA (PISUM SATIVUM)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

ASGROW SEED COMPANY

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

FOR OFFICIAL USE ONLY

PVPO NUMBER

7400085

VARIETY NAME OR TEMPORARY  
DESIGNATION

Regent (XP-F3008)

Abador 4/4

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g. 089 or 09 ) when number is either 99 or less or 9 or less.

## 1. TYPE:

2 1 = TALL (Internodes straight) 1 1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED  
2 2 = DWARF (Internodes zigzag)

## 2. SEASON:

2 Node number of first bloom: 1 = EARLY (8 - 12th node) 2 = MIDSEASON (13 - 24th node) 3 = LATE (Greater than 24th node)

## 3. MATURITY:

 No. of days Earlier than  1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL  
03 No. of days Later than 5 4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

## 4. PLANT HEIGHT:

055 CM. HIGH  
01 Cm. Shorter than 3 1 = ALASKA WR 2 = THOMAS LAXTON WR 3 = LITTLE MARVEL  
 Cm. Taller than  4 = WANDO 5 = ALDERMAN WR 6 = AUSTRIAN WINTER

## 5. VINE:

1 Habit: 1 = DETERMINATE 2 = INDETERMINATE 1 Stockiness: 1 = SLIM (Alaska) 3 = HEAVY (Alderman)  
2 Branching: 1 = NONE (Alaska) 2 = 1 - 2 BRANCHES (Little Marvel) 3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)  
1 Node Color: 1 = GREEN 2 = RED BLOTCH 13 NUMBER OF NODES  
07 CM. INTERNODE LENGTH (Just below 1st flowering node)

## 6. LEAFLETS:

2 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR) 3 = DARK GREEN (Alderman)  
2 Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 4 = HEAVY 2 Marbling: 1 = NONE 2 = MARBLED (Alaska)  
4 Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO 4 = THREE OR MORE

## 7. STIPULES:

2 1 = LACKING 2 = PRESENT 2 1 = NOT CLASPING 2 = CLASPING  
2 1 = NOT MARBLED 2 = MARBLED 3 Size (Compared with leaflets): 1 = SMALLER 2 = SAME  
2 Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER 3 = LARGER

## 8. FLOWER COLOR:

1 1 = MONOCOLOR 2 = BICOLOR 4  
1 Venation 1 Standard 1 Wing 1 Keel 1 = WHITE 2 = GREENISH 3 = LAVENDER 4 = PURPLE  
5 = RED 6 = OTHER (Specify)

9. PODS:

☐2 Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED ☐2 End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)

☐2 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman) 4 = OTHER (Specify) \_\_\_\_\_

☐1 Surface: 1 = SMOOTH 2 = ROUGH ☐2 1 = SHINY 2 = DULL

☐2 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPLE 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) \_\_\_\_\_

☐0 ☐5 CM. LENGTH ☐1 ☐0 MM. WIDTH (Between sutures) ☐0 ☐8 NUMBER OF SEEDS PER POD

10. SEEDS (95 - 100 Tenderometer):

☐3 Color: 1 = LIGHT GREEN (Perfection Canner) 2 = GREEN (Little Marvel) 3 = DARK GREEN (Dark Skin Perfection) 4 = OTHER (Specify) \_\_\_\_\_

☐4 Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED

☐1 ☐3 Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED ☐2 Surface: 1 = SHINY 2 = DULL

SEEDS (Mature, Dry):

☐1 Color: 1 = MONOCOLOR 2 = BICOLOR

☐7 Primary Color: 1 = CREAMY-WHITE (Mammoth Melting Sugar) 2 = YELLOW (Arthur) 3 = CREAM & GREEN (Thomas Laxton) 4 = YELLOW 5 = LIGHT GREEN (Alderman) 6 = MEDIUM GREEN (Little Marvel)

☐- Secondary Color: 7 = DARK GREEN (Dark Skin Perfection) 8 = BLUE-GREEN (Alaska WR) 9 = BROWN 10 = RED 11 = GRAY 12 = BLACK

☐- Color Pattern: 1 = SPLASHED 2 = MOTTLED 3 = STRIPED 4 = FLECKED 5 = DOTTED

☐1 Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK ☐3 Cotyledon Color: 1 = YELLOW 2 = ORANGE 3 = GREEN

☐1 ☐2 GRAMS PER 100 SEED

11. SEED SIEVE SIZE DISTRIBUTION (95 - 100) Tenderometer):

Sieve (%): ☐3 ☐2 <sup>1</sup> ☐3 ☐6 <sup>2</sup> ☐2 ☐8 <sup>3</sup> ☐0 ☐4 <sup>4</sup> ☐ ☐ <sup>5</sup> ☐ ☐ <sup>6</sup> ☐ ☐ <sup>7</sup> ☐ ☐ <sup>8</sup>

12. PLANT REACTION: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐0 1 = DROUGHT (Wando) ☐0 2 = COLD (Alaska) ☐0 3 = HEAT (Wando)

13. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐1 FUSARIUM WILT ☐0 NEAR-WILT ☐0 DOWNY MILDEW

☐0 ASCOCHYTA BLIGHT ☐0 POWDERY MILDEW ☐0 BACTERIAL BLIGHT

☐0 MOSAIC ☐0 PEA ENATION MOSAIC ☐0 YELLOW BEAN MOSAIC

☐0 OTHER (Specify) \_\_\_\_\_

14. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐0 APHIDS ☐0 OTHER (Specify) \_\_\_\_\_

15. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Mini	Fresh Seed Color	Puget
Leaf Color	Puget	Mature Seed Color	Puget
Pod Color	Puget	Seed Shape	Mini
Pod Shape	Mini	Plant Habit	Mini

REFERENCES: The following publication may be used as a reference aid for the standardization of character descriptions and terms:

- Shoemaker, D. N., 1934. Descriptions of Types of Principal American Varieties of Garden Peas. U.S.D.A. Miscellaneous Publication, No. 170.
- Hedrick, V. P., 1928. The Vegetables of New York. New York Agricultural Experiment Station. Vol. 1., Part 1.
- Wade, B. L., 1943. A Key to Pea Varieties. U.S.D.A. Circular No. 676.

Nickerson's or any recognized color fan may be used to determine color of the described variety.

7400085

EXHIBIT D

Data Indicative of Novelty

PV No. 7400085

Abador

'Abador' most closely resembles 'Mini' but has dark green freezer type peas while 'Mini' has light green canner type peas.

Allen Trotter  
Asgrow Seed Company



7400085

EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Pea ~~Regent~~ *ABADOK* 

Pea Regent was originated by Dr. W. H. Pierce, retired, and was further developed into a commercial variety by Dr. Martin Schnock, Asgrow plant breeders. By agreement between employee and company, all rights to any invention, discovery, or development made by the employee are assigned to the company. No rights to such invention, discovery, or development are retained by the employee.